



FIG. 1

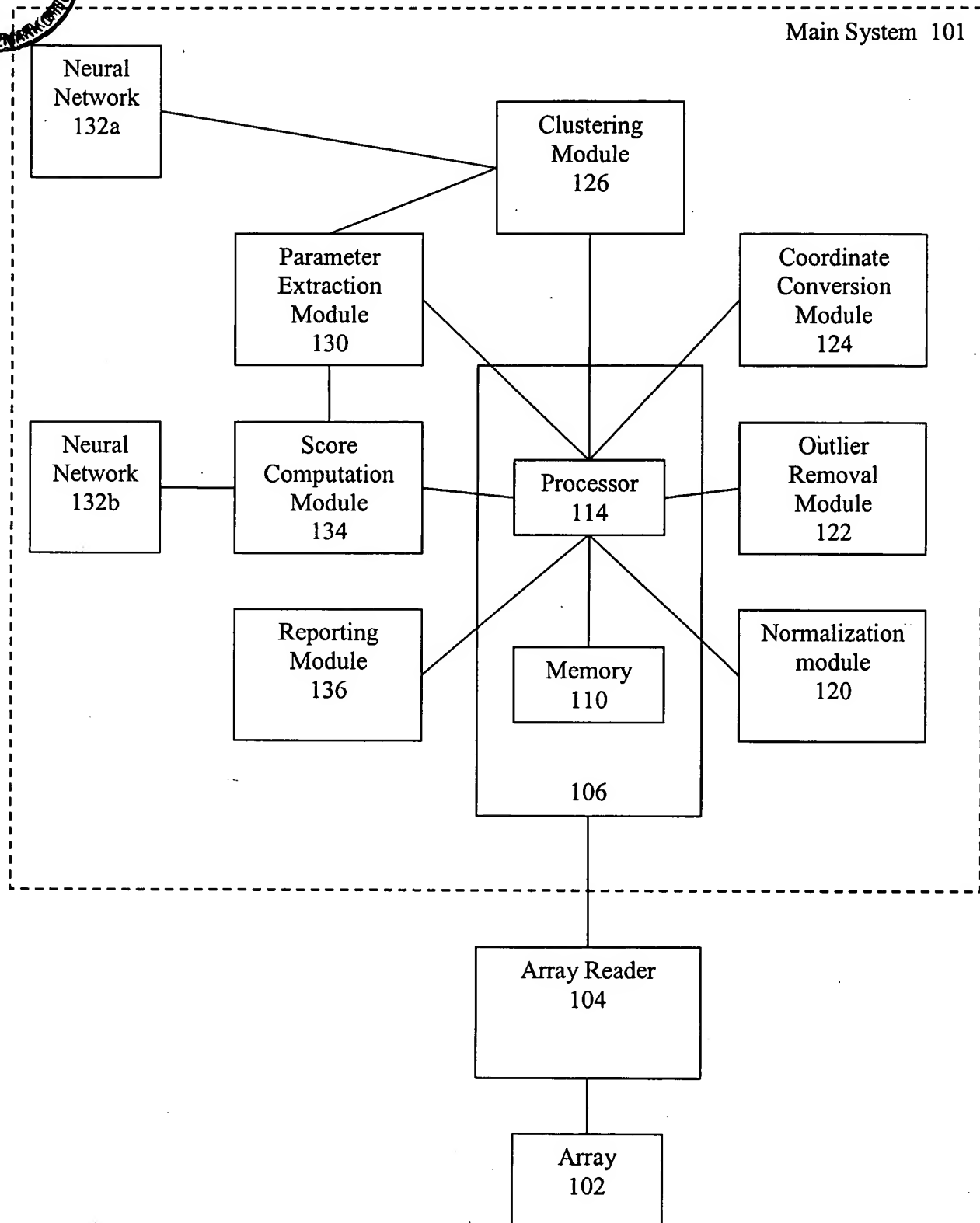
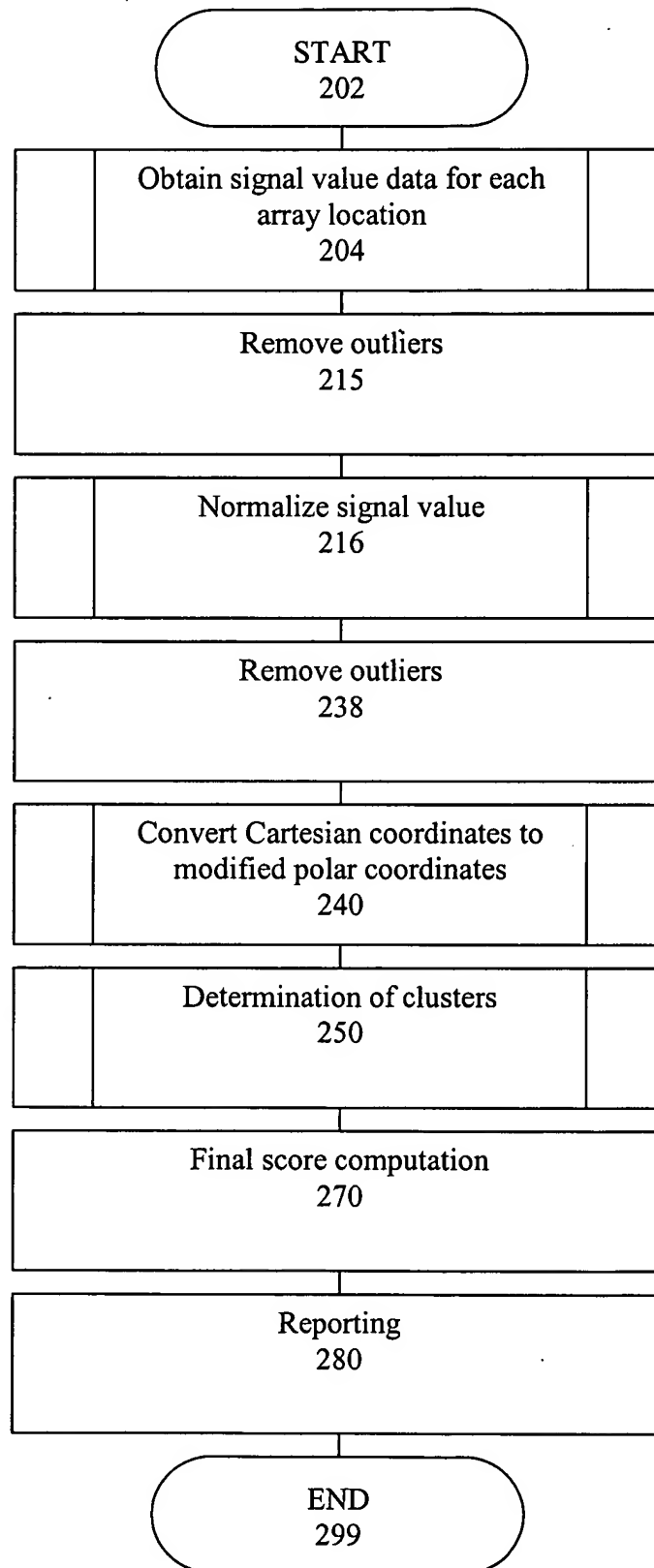


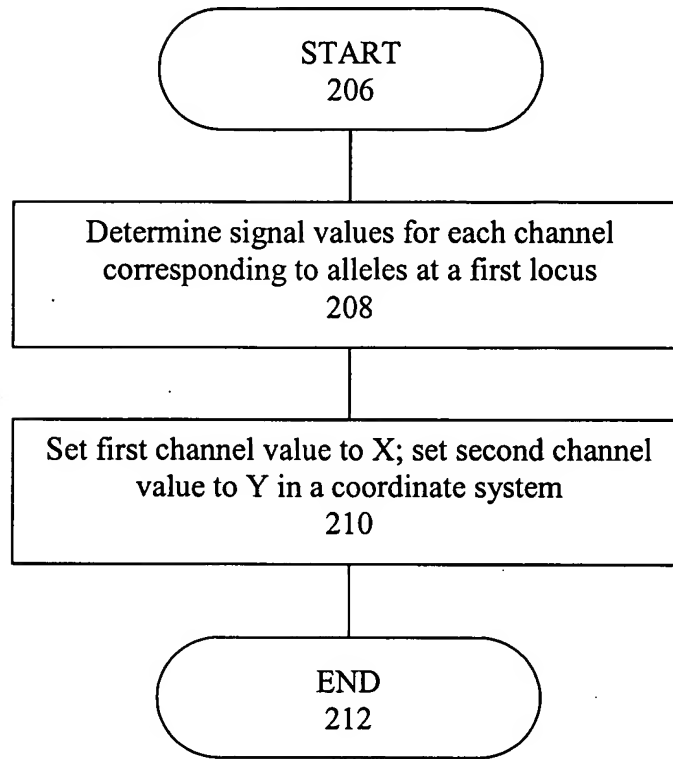
FIG. 2

## Process Overview 200



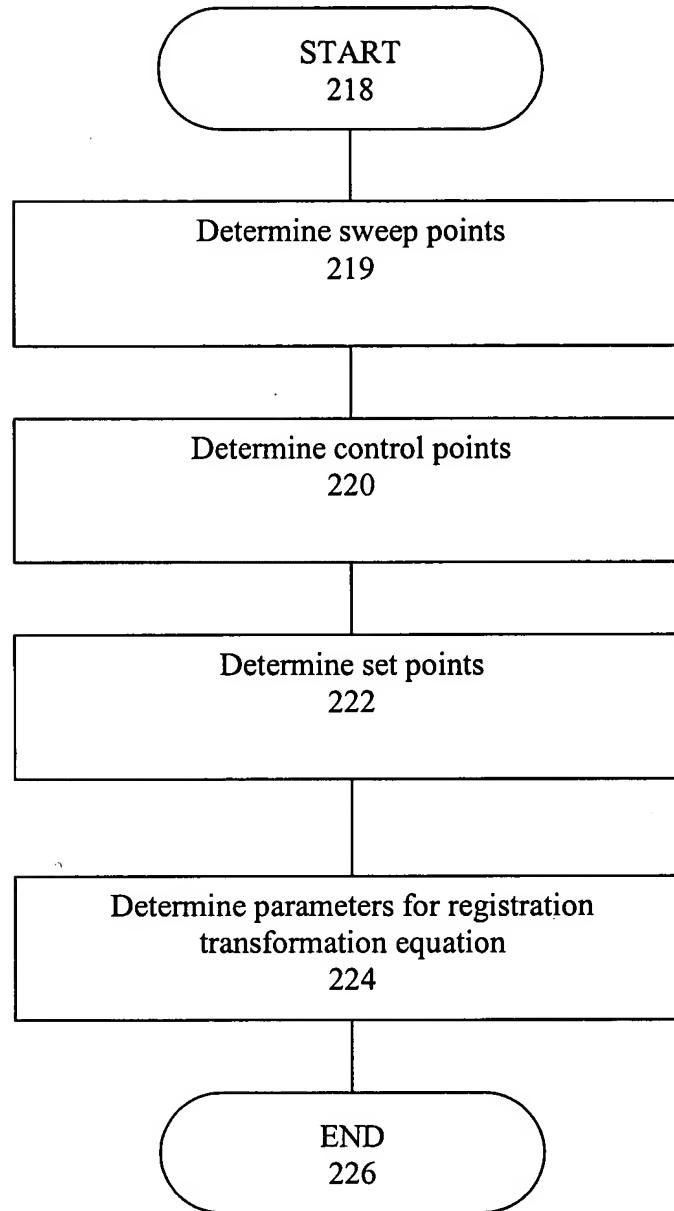
## FIG. 3

### Data Acquisition 204



## FIG. 4

### Normalization 216



## FIG. 5

Conversion of Cartesian coordinates to polar coordinates 240

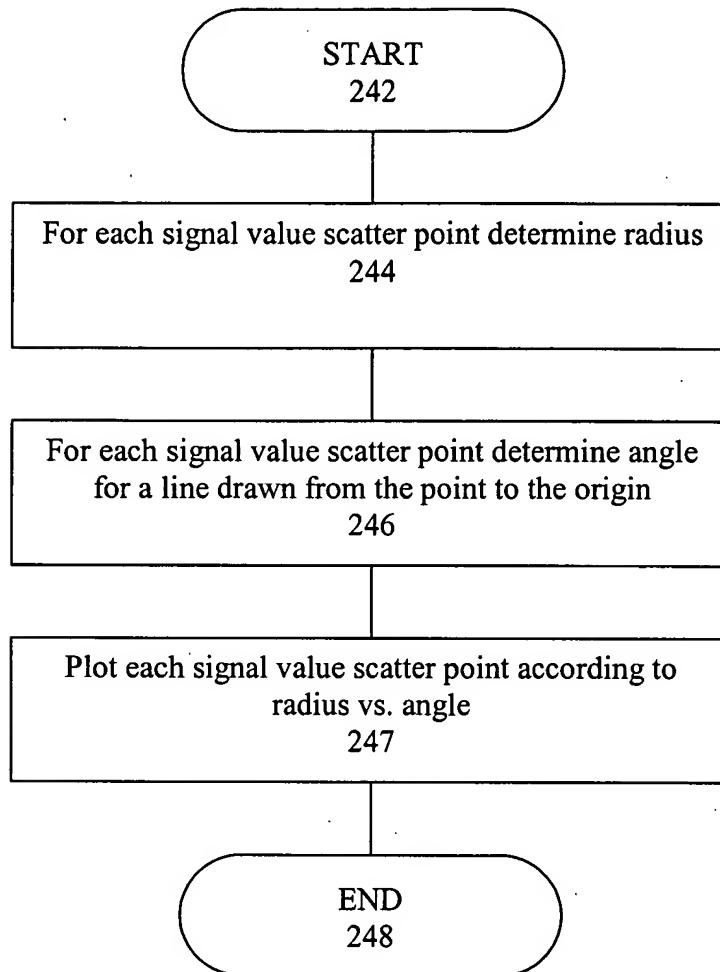
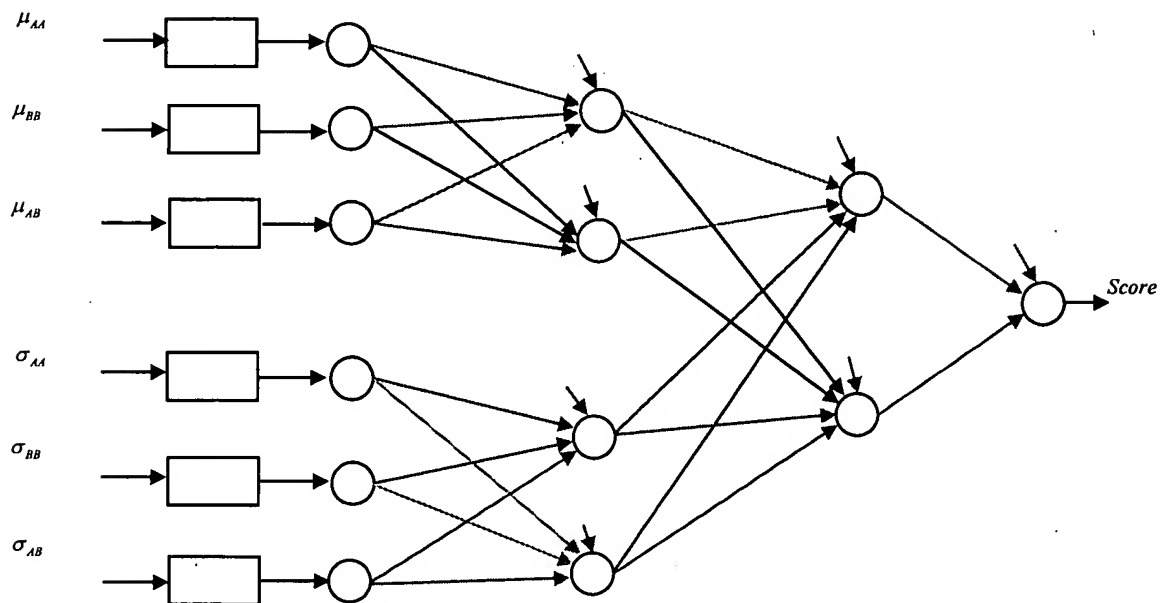


FIG. 6



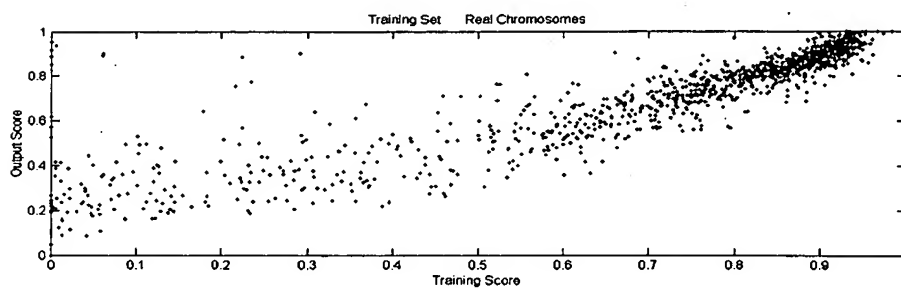


FIG. 7A

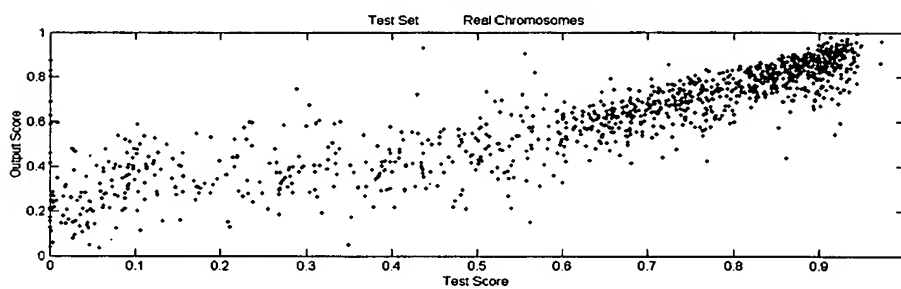


FIG. 7B

FIG. 8A

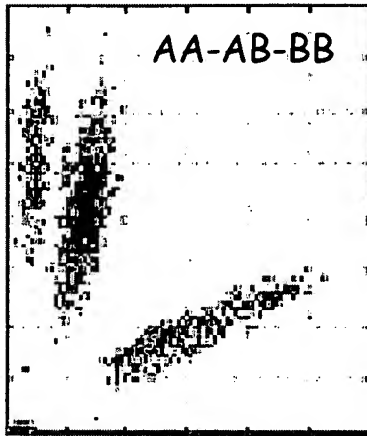


FIG. 8B

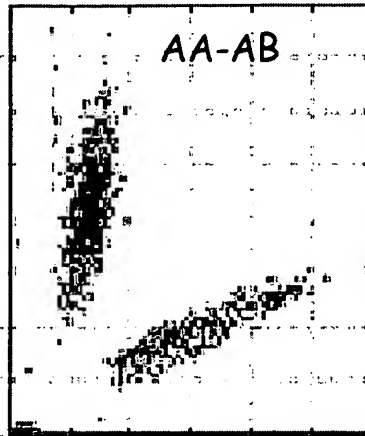


FIG. 8C

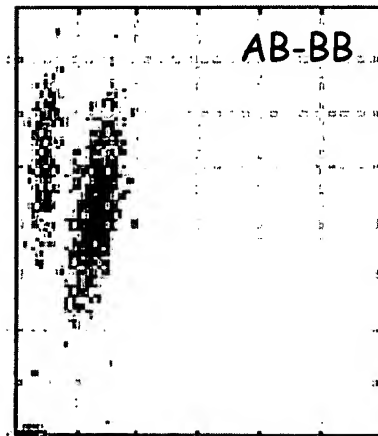


FIG. 8D

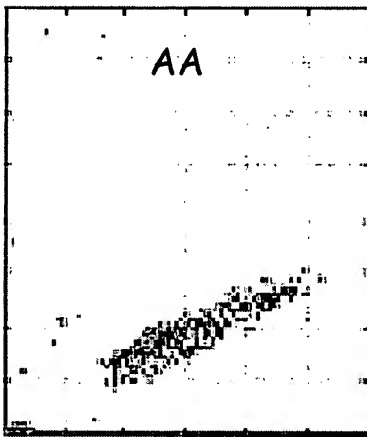


FIG. 8E

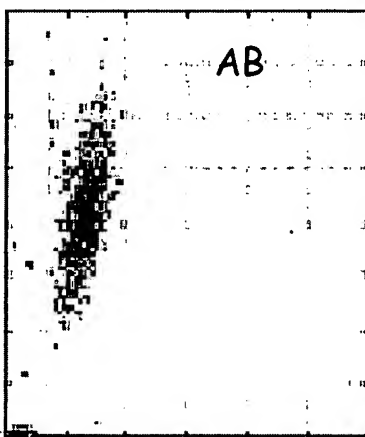


FIG. 8F

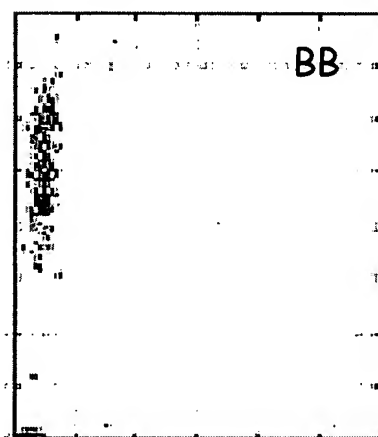
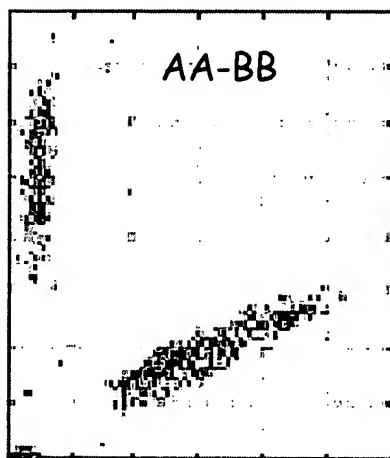


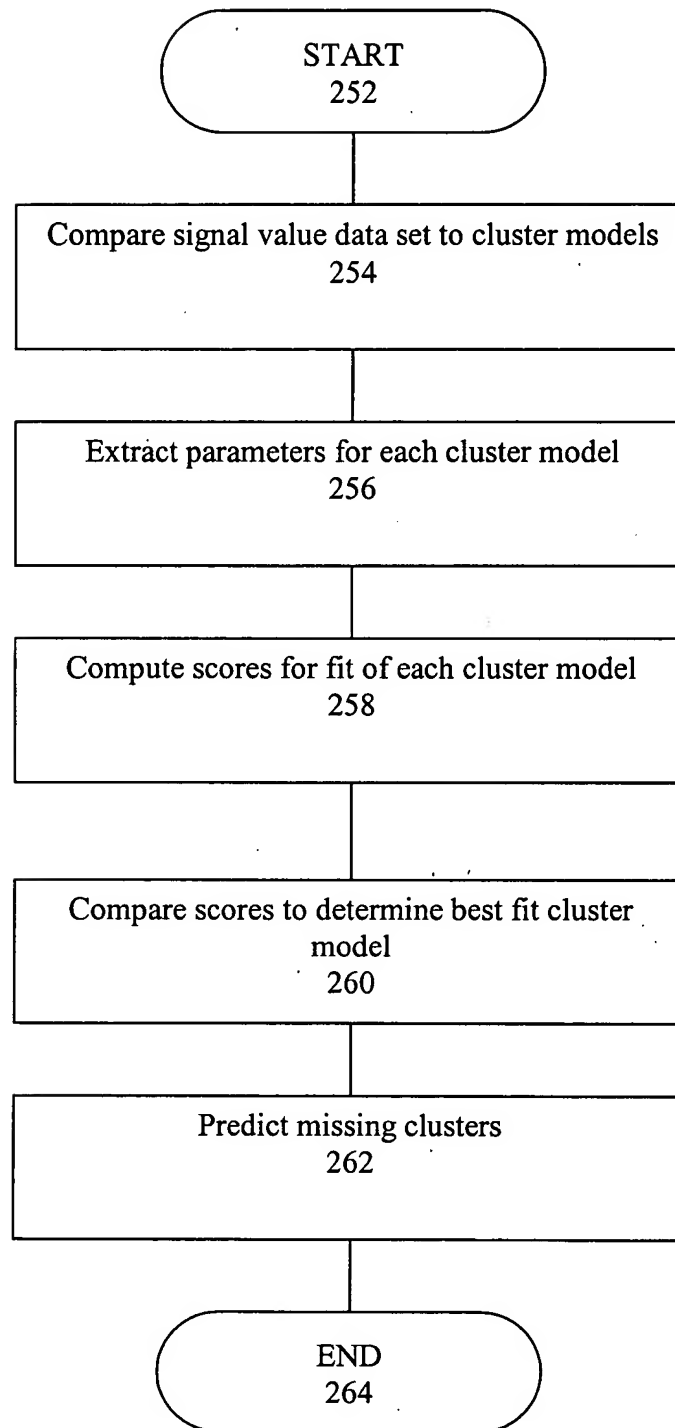
FIG. 8G





## FIG. 9

### Clustering 250



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normalization5 is robust to 10+10 outliers

